

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS

In re a	pplication of:)
	Vandanapu et al.) Examiner: Jean Bruner Jeanglaude)) Art Unit: 2819
Applic	eation No: 10/741,304) Art Omi: 2819
Filed:	December 18, 2003	
For:	BIT ALLOCATION FOR ENCODING TRACK INFORMATION	

Assistant Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

APPEAL BRIEF IN SUPPORT OF APPELLANTS' APPEAL TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

Introductory Remarks

Applicants (hereafter "Appellants") hereby submit this corrected Brief in support of an Appeal from a decision of rejection in a Final Office Action mailed August 1, 2005, and sustained in an Advisory Action mailed January 19, 2006, and in response to the Notice of Non-Compliant Brief mailed October 12, 2006, in the above-referenced case. Appellants note that the Notice of Non-Compliant Brief mailed October 12, 2006 is the **second** such notice in the above-referenced case. In response to the previously submitted Notice of Non-Compliant Brief, Appellants made changes to the Summary (Section V) to comply with the alleged defects pointed out in the previously submitted Notice of Non-Compliant Brief. Appellants further note that the alleged informalities (namely, the Brief lacked a blank page indicating there are no Evidences and no Related Proceedings, and the Arguments (Section VII) lacked subheaders and organizational formatting) under which the Brief was again rejected in the second Notice of Non-Compliant Brief were all present in the Brief as originally filed. Appellants cannot understand

why a **second** Notice of Non-Compliant Brief is being issued to address alleged informalities that were present in the Brief at the time of filing the previous Notice of Non-Compliant Brief. If such matters of form are truly issues that require a re-submission of the Brief, why were such matters of form not previously addressed in the previous Notice of Non-Compliant Brief? Appellants respectfully object to such a piecemeal rejection of the Brief under varying alleged informalities. Appellants submit that the substance of the Appellants' traversal of the final rejection has been clear from its initial submission. The result of the second Notice of Non-Compliant Brief is an unnecessary expenditure of Appellants' money, and an unnecessary delay in the prosecution of the case, to the detriment of Appellants.

With regard to the presently submitted corrected Brief, Appellants respectfully request consideration of the accompanying Appeal by the Board of Patent Appeals for allowance of the invention as presently recited in the claims.

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REAL PARTY IN INTEREST

The real party in interest of the above-referenced U.S. Patent application is Intel Corporation of 2200 Mission College Boulevard, Santa Clara, California 95052, to whom the application has been assigned.

II. RELATED PROCEEDINGS

To the best of Appellants' knowledge, there are no prior or pending appeals, interferences, or judicial proceedings related to the subject matter of this appeal that will directly affect, be directly affected by, or have a bearing on the Board's decision in the pending appeal.

III. STATUS OF THE CLAIMS

Claims 1-2, 4-7, and 9-20 are pending in the above-referenced application, and were finally rejected in the Final Office Action mailed August 1, 2005. These claims are the subject of this appeal. Specifically, claims 1, 4, 6-7, 9-15, and 17-20 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,728,669 of Benno; claim 2 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Benno; and, claim 5 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Benno in view of the reference "G.729 Annex B: A Silence Compression Scheme For Use With G.729 Optimized for V.70 Digital Simultaneous Voice and Data Applications," of Benyassine et al. (hereinafter "Benyassine"), IEEE, September 1997, pages 64 to 73.

Claims 3 and 8 are also pending in the above-referenced application, and were objected to as being dependent upon rejected base claims.

IV. STATUS OF AMENDMENTS

In response to the Final Office Action mailed August 1, 2005, rejecting the above-referenced claims, Appellants filed a Notice of Appeal on November 3, 2005, in conjunction with a Pre-Appeal Brief Request for Review. The panel decision in response to the Pre-Appeal Brief Request for Review was mailed on January 19, 2006, indicating the panel's decision to proceed to the Board of Appeals. No amendments have been filed in response to the Final Office Action. A copy of all claims on appeal is attached hereto as Appendix A.

V. SUMMARY OF CLAIMED SUBJECT MATTER

In the encoding of multiple subframes, each having multiple tracks, a first and a second subframe of a frame of data are encoded. One track of each of the subframes is identified, and a track indicator is generated to indicate to a decoder the identified track for both subframes. See Detailed Description, [0020] to [0022] and [0025] to [0026].

More specifically, consider the following summary of the independent claims.

1. A method for encoding data, comprising:

encoding a first and a second subframe of a frame of data, each subframe having multiple tracks; (See pages 7-8, par. [0022]; 102, 104 of Figure 1; 260, 270 of Figure 2)

identifying one of the multiple tracks for each subframe; and (See pages 7-8, par. [0021]) generating a track indicator to indicate to a decoder the identified track for both subframes. (See page 7, par. [0020]; page 10, par. [0025]; page 10, par. [0025])

9. (Previously Presented) An article of manufacture comprising a machine-accessible medium having content to provide instructions to cause a device to:

encode a first and a second subframe of a frame of data, each subframe having multiple tracks; (See pages 7-8, par. [0022]; 102, 104 of Figure 1; 260, 270 of Figure 2)

identify one of the multiple tracks for each subframe; and (See pages 7-8, par. [0021]) generate a track indicator to indicate to a decoder the identified track for both subframe. (See page 7, par. [0020]; page 10, par. [0025]; page 10, par. [0025])

13. (Previously Presented) An encoding apparatus comprising: a receiver to receive a data stream; (510 of Figure 5)

processing logic to encode the data stream into a frame of data (540 of Figure 5, page 13, par. [0037]), the frame of data to have a first and a second subframe, each subframe to have multiple tracks (See pages 7-8, par. [0022]; 102, 104 of Figure 1; 260, 270 of Figure 2), and the processing logic to identify one of the multiple tracks for each subframe of the received frame of data (See pages 7-8, par. [0021]), and generate a track indicator having information to indicate to a decoder the identified track for both subframes (See page 7, par. [0020]; page 10, par. [0025]; page 10, par. [0025]); and

a transmitter responsive to the processing logic to transmit the generated track indicator. (540 of Figure 5; page 13, par. [0037])

17. (Previously Presented) A coding system comprising:

a speech encoder having: (500 of Figure 5)

a receiver to receive a data stream; (510 of Figure 5)

processing logic to encode the data stream into a frame of data (540 of Figure 5, page 13, par. [0037]), the frame of data to have a first and a second subframe, each subframe to have multiple tracks (See pages 7-8, par. [0022]; 102, 104 of Figure 1; 260, 270 of Figure 2), and the processing logic to identify one of the multiple tracks for each subframe of the received frame of data (See pages 7-8, par. [0021]), and generate a track indicator having information to indicate to a decoder the identified track for both subframes (See page 7, par. [0020]; page 10, par. [0025]); and

a transmitter responsive to the processing logic to transmit the generated track indicator; and (540 of Figure 5; page 13, par. [0037])

a transmission line coupled with the transmitter to transport the generated track indicator. (page 13, par. [0037])

VI. GROUNDS OF REJECTION

Claims 1, 4, 6-7, 9-15, and 17-20 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,728,669 of Benno (hereinafter "Benno").

Claim 2 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Benno.

Claim 5 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Benno in view of the reference "G.729 Annex B: A Silence Compression Scheme For Use With G.729 Optimized for V.70 Digital Simultaneous Voice and Data Applications," of Benyassine et al. (hereinafter "Benyassine"), IEEE, September 1997, pages 64 to 73.

VII. ARGUMENT

A. Rejection of claims 1, 4, 6-7, 9-15, and 17-20 under 35 U.S.C. § 102(e) as anticipated by Benno is improper because the reference fails to support a prima facie case of anticipation of the invention as recited in the claims.

Claims 1, 9, 13, and 17 are the independent claims pending in the above-referenced patent application, and are the subject of this Request for Review. The Final Office Action mailed August 1, 2005 made final the rejection of these claims under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,728,669 of Benno (*Benno*). Appellants maintain that this

rejection is improper on its face at least because the cited reference fails to support a prima face anticipation rejection under MPEP § 2131.

Each of the independent claims recite limitations directed to identifying one of multiple tracks for each of two subframes and generating a track indicator to indicate to a decoder the identified track for both subframes. For example, claim 1 recites:

encoding a first and a second subframe of a frame of data, each subframe having multiple tracks;

identifying one of the multiple tracks for each subframe; and generating a track indicator to indicate to a decoder the identified track for both subframes.

With regard to the cited references, Benno discusses compression of data signals. In general, in Figure 5, Benno shows a lookup table to indicate the position of **pulses** within tracks of a subframe. Appellants note that one of ordinary skill in the art would not understand pulse positions to indicate an identified track, as asserted in the Final Office Action. It would appear from the Response to Arguments on page 2 of the Final Office Action that the pulse positions discussed in Benno are being interpreted as track indicators. Appellants submit that the assertion that pulse positions disclose track indicators is a misinterpretation of the reference. The Final Office Action fails to provide reasoning to support the assertion. Besides what is shown in Figure 5 of the reference, Figure 6 of the reference likewise shows a lookup table to indicate the position of pulses within tracks of a subframe. The emphasis of these figures is to display how the pulses are distributed. As Appellants have understood Benno, the reference fails to disclose or suggest within the discussion of these figures, or anywhere else, a **track indicator** as recited in the independent claims. The reference merely discusses the use of lookup tables to determine where pulse positions are located within a track. No indication of the track is given in the reference.

In more detail, Benno discloses lookup tables in Figures 5 and 6. The position of the **pulses** within the tracks is indicated in the lookup tables. See col. 2, lines 20 to 55; col. 3, lines 36 to 62. Furthermore, the reference discusses in relation to Figure 10 the use of the lookup tables. See col. 6, line 58 to col. 7, line 18, esp. col. 7, lines 5 to 15. As Appellants have understood the reference, Benno discusses encoding a first pulse position with four bits (see col. 2, lines 23 to 26; col. 2, lines 40 to 41), and then encoding a second pulse position with four more bits, with the position of the second pulse determined relative to the first pulse position (see

col. 2, lines 58 to 61; col. 3, lines 44 to 51; col. 7, lines 5 to 12). Thus, separate indicators are used for the different pulse position indicators. No reasonable interpretation could be given to the pulse positions of Benno to suggest track indicators as recited in the claimed invention. As specifically set forth in col. 7, lines 5 to 15, Benno discusses determining the offset of the two pulse positions. As Appellants have understood, once the relative spacing of the pulse positions is determined, rather than be placed in an absolute location within the next track, Benno contemplates placing the pulse in a position relative to the offset. At no point does Benno infer that the position will be indicated in any manner other than with the four bits discussed above – and merely discusses that the determination of which position to use is determined in relation to the pulse of the previous track.

Appellants have set forth a detailed discussion of the reference for purposes of pointing out the defects in the reference, and the error in the Office Action by relying on Benno as a basis for its rejection of the claimed invention. As a first matter in relation to the discussion of the reference, Appellants repeat that the reference is not applicable to the invention as claimed. By pointing out the defects of the reference, Appellants make no implication or suggestion that the lookup table of Benno to indicate pulse positions can in any way be interpreted to disclose an indicator of tracks within a subframe. To the contrary, Appellants assert that to so interpret the reference is error. Benno discusses the positioning of pulses within tracks, and fails to discuss identification of tracks or the indication of tracks within a subframe. No reasonable interpretation of the cited reference can be made to support the anticipation rejection in the Final Office Action.

B. Rejection of claim 2 under 35 U.S.C. § 103(a) as unpatentable over Benno is improper because the reference fails to support a prima facie case of obviousness of the invention as recited in the claim.

Claim 2 depends from claim 1, discussed above. As stated above, Benno fails to disclose or suggest what is asserted in the Final Office Action. At least for the same reasons stated above with respect to claim 1, Benno fails to support a prima facie case of obviousness under MPEP § 2143.

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C. Rejection of claim 5 under 35 U.S.C. § 103(a) as unpatentable over in view of Benyassine is improper because the references fail to support a prima facie case of obviousness of the invention as recited in the claim.

Claim 5 depends from claim 1, discussed above. As stated above, Benno fails to disclose or suggest what is asserted in the Final Office Action. Further regarding the Benyassine reference, Appellants note that the reference was not cited as curing, nor indeed does it cure, the deficiencies noted above with regards to Benno. Neither Benno nor Bennyassine disclose or suggest generating a track indicator to indicate to a decoder an identified track for multiple subframes, as recited in the claimed invention. Therefore, the references fail to support a prima facie case of obviousness of the claimed invention under MPEP § 2143.

VIII. CONCLUSION

Appellants respectfully submit that all appealed claims in this application are patentable and request that the Board of Patent Appeals and Interferences overrule the Examiner and direct allowance of the rejected claims.

A single copy of this correct brief is submitted as per 37 C.F.R. §41.37(a). Appellants believe that no fee is required, as the fee of \$500.00 to cover the appeal fee for one other than a small entity as specified in 37 C.F.R. §1.17(c) was submitted with the originally filed Brief. Please charge any shortages and credit any overcharges to our Deposit Account No. 02-2666.

Respectfully submitted, **BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP**

Date: November 10, 2006

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I hereby certify that this correspondence is being deposited with the United States Postal service as first class mail on the below date with sufficient postage in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

Signature

Michelle I Evans

11/10/2006

Date

APPENDIX A: CLAIMS ON APPEAL

(Previously Presented) A method for encoding data, comprising:
 encoding a first and a second subframe of a frame of data, each subframe having multiple
tracks;

identifying one of the multiple tracks for each subframe; and generating a track indicator to indicate to a decoder the identified track for both subframes.

- 2. (Original) A method according to claim 1, wherein encoding the subframes having multiple tracks comprises encoding subframes, each having a number of tracks, the number being other than a power of two.
- 3. (Original) A method according to claim 2, wherein encoding the subframes having a non-power-of-two number of tracks comprises encoding subframes having 5 tracks.
- 4. (Original) A method according to claim 1, wherein a track has pulse positions, wherein encoding subframes having multiple tracks comprises encoding subframes having at least one track with an additional pulse position as compared to another track, and wherein identifying one of the multiple tracks for each subframe comprises identifying the at least one track with the additional pulse position.
- **5.** (Original) A method according to claim 1, wherein encoding the subframes comprises encoding the subframes according to the ITU-T G.729E standard.
- 6. (Original) A method according to claim 1, wherein encoding the subframes having multiple tracks comprises encoding subframes having multiple tracks in a sequence of track locations, and wherein identifying one of the multiple tracks for each subframe comprises identifying the track location of one of the multiple tracks for each subframe, and wherein generating the track indicator comprises generating a set of bits that corresponds to the track locations for all of the identified tracks for both subframes.
- 7. (Original) A method according to claim 6, wherein generating the set of bits comprises generating a set of bits that corresponds to an ordered pair, a value of the first member of the pair to indicate the identified track in the first subframe, and the value of the second member of the pair to indicate the identified track in the second subframe.
- **8.** (Original) A method according to claim 1, wherein generating a track indicator comprises jointly encoding track information for tracks in both subframes.

9. (Previously Presented) An article of manufacture comprising a machine-accessible medium having content to provide instructions to cause a device to:

encode a first and a second subframe of a frame of data, each subframe having multiple tracks;

identify one of the multiple tracks for each subframe; and generate a track indicator to indicate to a decoder the identified track for both subframe.

- 10. (Original) An article of manufacture according to claim 9, wherein a track has pulse positions, wherein the content to provide instructions to cause the device to encode subframes having multiple tracks comprises the content to provide instructions to cause the device to encode subframes having at least one track with an additional pulse position as compared to another track, and wherein the content to provide instructions to cause the device to identify one of the multiple tracks for each subframe comprises the content to provide instructions to cause the device to identify the at least one track with the additional pulse position.
- 11. (Original) An article of manufacture according to claim 9, wherein the content to provide instructions to cause the device to encode the subframes having multiple tracks comprises the content to provide instructions to cause the device to encode subframes having multiple tracks in a sequence of track locations, and wherein the content to provide instructions to cause the device to identify one of the multiple tracks for each subframe comprises the content to provide instructions to cause the device to identify the track location of one of the multiple tracks for each subframe, and wherein the content to provide instructions to cause the device to generate the track indicator comprises the content to provide instructions to cause the device to generate a set of bits that corresponds to the track locations for all of the identified tracks for both subframes.
- 12. (Original) An article of manufacture according to claim 11, wherein the content to provide instructions to cause the device to generate the set of bits comprises the content to provide instructions to cause the device to generate a set of bits that corresponds to an ordered pair, a value of the first member of the pair to indicate the identified track in the first subframe, and the value of the second member of the pair to indicate the identified track in the second subframe.
- **13.** (Previously Presented) An encoding apparatus comprising: a receiver to receive a data stream:

processing logic to encode the data stream into a frame of data, the frame of data to have a first and a second subframe, each subframe to have multiple tracks, and the processing logic to identify one of the multiple tracks for each subframe of the received frame of data, and generate a track indicator having information to indicate to a decoder the identified track for both subframes; and

a transmitter responsive to the processing logic to transmit the generated track indicator.

- 14. (Original) An encoding apparatus according to claim 13, wherein the processing logic encodes a frame of data having multiple tracks with pulse positions, and encodes at least one track to have an additional pulse position as compared to another track, and wherein the processing logic identifies the at least one track with the additional pulse position.
- 15. (Original) An encoding apparatus according to claim 13, wherein the processing logic encodes a frame having subframes having multiple tracks in a sequence of track locations and identifies the track location of one of the multiple tracks for each subframe, and wherein the processing logic generates a set of bits that corresponds the track locations for all of the identified tracks for both subframes.
- 16. (Original) An encoding apparatus according to claim 15, wherein the processing logic generates a set of bits that corresponds to an ordered pair, a value of the first member of the pair to indicate the identified track in the first subframe, and the value of the second member of the pair to indicate the identified track in the second subframe.
- **17.** (Previously Presented) A coding system comprising:

a speech encoder having:

a receiver to receive a data stream;

processing logic to encode the data stream into a frame of data, the frame of data to have a first and a second subframe, each subframe to have multiple tracks, and the processing logic to identify one of the multiple tracks for each subframe of the received frame of data, and generate a track indicator having information to indicate to a decoder the identified track for both subframes; and

a transmitter responsive to the processing logic to transmit the generated track indicator; and

a transmission line coupled with the transmitter to transport the generated track indicator.

- 18. (Original) A coding system according to claim 17, wherein the processing logic encodes a frame of data having multiple tracks with pulse positions, and encodes at least one track to have an additional pulse position as compared to another track, and wherein the processing logic identifies the at least one track with the additional pulse position.
- 19. (Original) A coding system according to claim 17, wherein the processing logic encodes a frame having subframes having multiple tracks in a sequence of track locations and identifies the track location of one of the multiple tracks for each subframe, and wherein the processing logic generates a set of bits that corresponds the track locations for all of the identified tracks for both subframes.
- **20.** (Original) A coding system according to claim 19, wherein the processing logic generates a set of bits that corresponds to an ordered pair, a value of the first member of the pair to indicate the identified track in the first subframe, and the value of the second member of the pair to indicate the identified track in the second subframe.

APPENDIX B: EVIDENCES

None.

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APPENDIX C: RELATED PROCEEDINGS

None.

Application No. 10/741,304 Atty. Docket No. 42390.P17107



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TRANSMITTAL FORM (to be used for all correspondence after initial filing)			Filing Date	December 18, 2003				
			First Named Inventor	Naveen Kumar Vandanapu				
			Art Unit	2819				
			Examiner Name	Jean Bruner Jeanglaude				
Total Number of Pa	ages in This Submission	20	Attorney Docket Number	42P17107				
	ENCLOSURES (check all that apply)							
Fee Transmittal	Form	Drawing(s)		After Allowance Communication to TC				
Fee Attac	ched	Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences				
Amendment / Ro	eply	Petition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)				
After Fina	al /declaration(s)	Petition to Convert a Provisional Application Proprietary		Proprietary Information				
Extension of Tim	ne Request	Power of Attorney, Revocation Change of Correspondence Address		Status Letter				
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Information Disclosure Statement		Request for Refund		Return Post Card Response Non-Compliant				
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Individual name BLAKELY, SOKOLOFF,			AYLOR & ZAFMA	AN LLP				
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November 10, 2006								
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November 10, 2006

Based on PTO/SB/21 (09-04) as modified by Blakely, Solokoff, Taylor & Zafman (ndc) 10/12/2006. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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EE TRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

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Complete if Known

Application Number 10/741,304

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First Named Inventor Naveen Kumar Vandanapu

Examiner Name Jean Bruner Jeanglaude

Art Unit 2819

Attorney Docket No. 42P17107

METHOD OF PAYMENT (check all that apply)								
Check [☐ Check ☐ Credit card ☐ Money Order ☒ None ☐ Other (please identify):							
Deposit A	Account D	Jeposit Ac	count N	Jumber: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Za	afman LLP			
☐ Cha ⊠ Cha	For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge any additional fee(s) or underpayment of fee(s) Under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.							
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1051	130	2051	65	Surcharge - late filing fee or oath				
1052	50	2052		Surcharge - late provisional filing fee or cover sheet.				
2053	130	2053		Non-English specification				
1251	120	2251		Extension for reply within first month				
1252	450	2252	225	Extension for reply within second month				
1253	1,020	2253	510	extension for reply within third month				
1254	1,590	2254	795	xtension for reply within fourth month				
1255	2,160	2255	1,080	Extension for reply within fifth month				
1401	500	2401	250	Notice of Appeal				
1402	500	2402	250	Filing a brief in support of an appeal				
1403	1,000	2403	500	Request for oral hearing				
1451	1,510	2451		Petition to institute a public use proceeding				
1460	130	2460	130	Petitions to the Commissioner				
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)				
1806	180	1806	180	Submission of Information Disclosure Stmt				
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))				
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))				
Other for	ee (spe	cify) R	espon	se Non-Compliant Appeal Brief - No Fee	0.00			
				SUBTOTAL (2) (\$)	0.00			

SUBMITTED BY Complete (if applicable)					
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